

IN THE CLAIMS

Please substitute the following listing of claims for the previous listing of claims.

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10. (Currently amended) A method of refurbishing a component of a process chamber, the component comprising a structure having a textured titanium coating over an intermetallic compound, and the method comprising:

(a) removing the textured titanium coating to expose the intermetallic compound on the structure;

(b) performing a penetrative bead blasting step by propelling blasting beads having a bead diameter of less than about 180 micrometers with a gas that is pressurized to a pressure of less than about 310 kPa, toward the intermetallic compound on the structure to remove the intermetallic compound to form a clean surface on the structure; and

(c) forming a metal layer on the clean surface of the structure,
whereby refurbished according to the method of claim 1, wherein the component is capable of being refurbished by the method at least about 15 times substantially without failure of the component.

11. (Currently amended) A method ~~component refurbished~~ according to ~~the method of claim 10~~ [[1,]] wherein the component comprises at least a portion of one or more of an enclosure wall, a chamber shield, a target, a cover ring, a deposition ring, a support ring, an insulator ring, a coil, a coil support, a shutter disk, a clamp shield, and a substrate support.

12-17. (Cancel)

18. (Currently amended) A refurbished component ~~refurbished according to the method of claim 12, wherein for a process chamber,~~ the component comprising a structure having a refurbished textured titanium coating over an intermetallic compound, wherein the component is refurbished by the steps of:

(i) immersing the component in a cleaning solution to remove an original titanium coating to expose an intermetallic compound on the structure of the component;

(ii) removing the intermetallic compound by bead blasting with blasting beads having a bead diameter of less than about 180 micrometers propelled by a gas pressurized to a pressure of less than about 310 kPa to form an exposed surface of the structure;

(iii) texturizing the exposed surface of the structure by bead blasting with blasting beads having a bead diameter of less than about 1000 micrometers that are propelled by a gas pressurized to a pressure of less than about 414 kPa, to form a textured surface having a surface roughness average of from about 3.81 micrometers to about 8.89 micrometers; and

(iv) forming the refurbished titanium coating on the textured surface by twin-wire arc spay coating,

whereby the refurbished component is capable of being refurbished by the method at least about 15 times substantially without failure of the component.

19. (Currently amended) A component according to claim 18 ~~refurbished according to the method of claim 12,~~ wherein the component comprises at least a portion of one or more of an enclosure wall, a chamber shield, a target, a cover ring, a deposition ring, a support ring, an insulator ring, a coil, a coil support, a shutter disk, clamp shield and a substrate support.

20. (Currently amended) A substrate processing chamber component comprising:

- (a) ~~an underlying~~ a structure; and
- (b) a titanium coating over the ~~underlying~~ structure, the titanium coating having a textured surface.

21. (Currently amended) A component according to claim 20 wherein the ~~underlying~~ structure is made from titanium.

22. (Currently amended) A component according to claim 20 wherein the ~~underlying~~ structure comprises at least a portion of one or more of an enclosure wall, a chamber shield, a cover ring and a deposition ring.

23. (Previously presented) A component according to claim 20 wherein the titanium coating comprises a twin-wire arc sprayed titanium coating.

24. (Currently amended) A substrate processing chamber component comprising:

- (a) ~~an underlying~~ a structure made from titanium; and
- (b) a titanium coating over the ~~underlying~~ structure, the titanium coating having a textured surface.

25. (Currently amended) A component according to claim 24 wherein the ~~underlying~~ structure comprises at least a portion of one or more of an enclosure wall, a chamber shield, a cover ring and a deposition ring.

26. (Previously presented) A component according to claim 24 wherein the titanium coating comprises a twin-wire arc sprayed titanium coating.

27. (New) A component according to claim 18 wherein the intermetallic compound comprises at least one of aluminum, titanium, stainless steel, copper and tantalum.

28. (New) A component according to claim 18 wherein in (i) the cleaning solution comprises an acidic or basic solution to dissolve the titanium coating.

29. (New) A component according to claim 18 wherein in (i) the cleaning solution comprises HF and HNO₃.

30. (New) A component according to claim 18 wherein (ii) comprises bead blasting the intermetallic compound with blasting beads having a bead diameter greater than about 80 micrometers.

31. (New) A component according to claim 18 wherein (ii) comprises bead blasting the intermetallic compound by propelling blasting beads towards the intermetallic compound with a gas that is pressurized to a pressure of greater than about 172 kPa.

32. (New) A component according to claim 18 wherein in (iii) the texturizing bead blasting step comprises propelling blasting beads having a bead diameter of greater than about 400 micrometers at the exposed surface of the structure with gas that is pressurized to a pressure of at least about 276 kPa.

33. (New) A component according to claim 18 wherein the exposed surface of the structure comprises crevices, and wherein the bead diameter is selected to be smaller than the average width of the crevices, whereby the blasting beads can penetrate into the crevices to remove the intermetallic material.

34. (New) A component according to claim 18 wherein (iv) comprises generating an electrical arc that at least partially liquefies a titanium coating material, and passing a pressurized gas past the liquefied titanium coating material to propel the liquefied coating material towards the textured surface.

35. (New) A substrate processing chamber component comprising:
(a) a structure made from titanium; and
(b) a titanium coating over the structure, the titanium coating comprises a twin-wire arc sprayed titanium coating having a textured surface.

36. (New) A component according to claim 35 wherein the structure comprises at least a portion of one or more of an enclosure wall, a chamber shield, a cover ring and a deposition ring.

37. (New) A substrate processing chamber component comprising:
(a) a structure comprising at least a portion of one or more of an enclosure wall, a chamber shield, a cover ring and a deposition ring; and
(b) a titanium coating over the structure, the titanium coating having a textured surface.

38. (New) A component according to claim 37 wherein the structure is made from titanium.